



Fire Protection Training

Procedures Handbook 4300

MOBILE EQUIPMENT

TOPIC: Bulldozer Operations

TIME FRAME: :15

LEVEL OF INSTRUCTION: Level I

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will describe the safety precautions to follow when working around bulldozers.

Standard: With a minimum of 80% accuracy

MATERIALS NEEDED:

- Appropriate visual aids
- Audio visual equipment
- Bulldozer if available
- White board and erasable markers

REFERENCES:

- Teie, Firefighter's Handbook on Wildland Firefighting
- IFSTA, Wildland Firefighting for Structural Firefighters, 4th Edition, Chapters 6 and 8
- FIRESCOPE Field Operations Guide (ICS 420-1)

PREPARATION:

The bulldozer's ability to rapidly construct fire control lines makes it a widely used fire suppression tool. Because of the bulldozers size, power and limited operator visibility, there are definite safety rules to follow when working near one.



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BULLDOZER OPERATIONS

PRESENTATION	APPLICATION
<p>I. TERMINOLOGY</p> <ul style="list-style-type: none">A. CanopyB. R.O.P.S.C. Winch or rippersD. Tracks<ul style="list-style-type: none">1. Idler2. Drive sprocket3. Rollers4. Grouser padsE. Bulldozer Blade<ul style="list-style-type: none">1. Types<ul style="list-style-type: none">a. Angleb. Straightc. PAT+ Power Angle Tilt2. Ram3. Adjusting arm4. Push arm or “C” frame5. End bitsF. ICS Bulldozer Typing<ul style="list-style-type: none">1. Type I - Heavy<ul style="list-style-type: none">a. Equivalent of Caterpillar D-7 or D-82. Type II – Medium<ul style="list-style-type: none">a. Equivalent of Caterpillar D-5 or D-63. Type III - Light<ul style="list-style-type: none">Equivalent of Caterpillar D-4 or smallerG. Bulldozer Operator (HFEO)<ul style="list-style-type: none">1. HFEO-CAL FIRE	<p>Information sheets #1, #2, and #3</p>

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PRESENTATION	APPLICATION
<ul style="list-style-type: none">H. Dozer Boss<ul style="list-style-type: none">1. Agency specific2. ICS qualificationI. Bulldozer Swamper<ul style="list-style-type: none">1. Agency specificII. BULLDOZER USES<ul style="list-style-type: none">A. Construct fire control linesB. Construct safety zonesC. Scatter or reposition heavy fuels near the fire perimeterD. Separate burning from unburned fuels<ul style="list-style-type: none">1. Cotton bales2. Hay bales3. Log decks4. Sawdust5. Debris pilesE. Construct or improve fireline access roadsF. Construct Water BarsIII. SAFETY<ul style="list-style-type: none">A. Make bulldozer operator and swamper aware of your location<ul style="list-style-type: none">1. Especially in dusty, smokey conditions or night operationsB. Be alert for rocks and other rolling materials when working below bulldozers<ul style="list-style-type: none">1. Move to safe location if bulldozer working directly above youC. Do not walk directly in front of or in back of a bulldozer<ul style="list-style-type: none">1. Limited operator visibility	

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<ul style="list-style-type: none">2. Trees being pushed over by the bulldozer sometimes fall far in front of the bulldozer's position.D. Remain at least 50 feet away while bulldozer is operatingE. Keep hose lays to one side of the constructed bulldozer lineF. Do not approach the bulldozer until it has stopped and the operator has signaled you<ul style="list-style-type: none">1. Remain in full view of operator at all timesG. Never get on a moving bulldozer to communicate with bulldozer operator<ul style="list-style-type: none">1. Pads snap shut at the top of the track and may trap a footH. Do not permit anyone but the bulldozer operator to ride on the bulldozerI. Watch material being moved by a bulldozer<ul style="list-style-type: none">1. Long logs2. Boulders3. Rocks4. Vines5. Wire fences6. StumpsJ. When entering an area where bulldozers have completed work, watch for:<ul style="list-style-type: none">1. Loosened rocks2. Weakened trees3. Rattlesnakes4. Bees	<p>Why? Bulldozer tracks will damage hose if driven over.</p>

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<ul style="list-style-type: none">K. Do not sleep on a bulldozer lineL. Stay clear of bulldozer loading and unloading operationsM. Advise operator of hazards<ul style="list-style-type: none">1. Power lines2. Fence lines3. Shafts, pits, or quarries4. Falling snagsN. Support bulldozer fire control operations with hoselays where possible	

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BULLDOZER OPERATIONS

SUMMARY:

Visibility of a bulldozer operator is limited. Therefore, crews working near and around bulldozers need to pay attention to what they are doing and where they are working in relation to the bulldozer.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).